

Name _____ Date _____ Class _____
Use after Section 1:11.

The Scientific Method

Each sentence below describes a step of the scientific method. Match each sentence with a step of the scientific method listed below.

- A. recognize a problem
- B. form a hypothesis

- C. test the hypothesis with an experiment
- D. draw conclusions

- _____ 1. Stephen predicted that seeds would start to grow faster if an electric current traveled through the soil in which they were planted.
- _____ 2. Susan said, "If I fertilize my geranium plants, they will blossom."
- _____ 3. Jonathan's data showed that household cockroaches moved away from raw cucumber slices.
- _____ 4. Rene grew bacteria from the mouth on special plates in the laboratory. She placed drops of different mouthwash on bacteria on each plate.
- _____ 5. Kathy used a survey to determine how many of her classmates were left-handed and how many were right-handed.
- _____ 6. Dana wanted to know how synthetic fibers were different from natural fibers.
- _____ 7. Edward saw bats catching insects after dark. He asked, "How do bats find the insects after dark?"
- _____ 8. Justin wondered if dyes could be taken out of plant leaves, flowers, and stems.
- _____ 9. Arjulia soaked six different kinds of seeds in water for 24 hours. Then she planted the seeds in soil at a depth of 1 cm. She used the same amount of water, light, and heat for each kind of seed.
- _____ 10. Bob read about growing plants in water. He wanted to know how plants could grow without soil.
- _____ 11. Kevin said, "If I grow 5 seedlings in red light, the plants will grow faster than the 5 plants grown in white light."
- _____ 12. Angela's experiment showed that earthworms move away from light.
- _____ 13. Scott said, "If acid rain affects plants in a particular lake, it can affect small animals, such as crayfish, that live in the same water."
- _____ 14. Michael experimented with the diets of guinea pigs. He found that guinea pigs need vitamin C and protein in their diets.
- _____ 15. Kim's experiment showed that chicken egg shells became stronger if the hen ate feed to which extra calcium had been added.